

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov



**CONFIRMATION NO. 7745** 

Bib Data Sheet					
SERIAL NUMBER 10/651,103	FILING DATE 08/29/2003 RULE	CLASS 257	GROUP AR 2891	T UNIT	ATTORNEY DOCKET NO. 2003_1226
APPLICANTS	· · · · · · · · · · · · · · · · · · ·				
Shoriki Narita, H	lirakata-shi, JAPAN;				
Masahiko Ikeya,	oi, Hirakata-shi, JAPAN , Sakai-shi, JAPAN;Tak a, Kashihara-shi, JAPA	kaharu Mae, Hirakata-	shi, JAPAN;		
	1A				
	is a DIV of 10/019,700 f PCT/JP00/04280 06/		8,975		
** FOREIGN APPLICA	TIONS	***			
JAPAN 11-1890 JAPAN 11-2937 JAPAN 11-3088 JAPAN 11-3239	53 07/02/1999 02 10/15/1999 55 10/29/1999				
IF REQUIRED, FOREI ** 11/20/2003	GN FILING LICENSE	GRANTED			
Foreign Priority claimed 35 USC 119 (a-d) conditions met	yes no no Met afte	STATE OR	SHEETS	TOTAL	INDEPENDENT
Verified and Acknowledged Exa	Allowance miper's Signature Init	COUNTRY JAPAN	DRAWING 60	CLAIMS 4	CLAIMS 4
ADDRESS 000513 WENDEROTH, LIND 8 2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021			·	·	
TITLE Bump forming apparati appearance semicondu charge appearance se	uctor substrate, charge	nce semiconductor sub removing unit for char	strate, charge ge appearance	removal metle semiconduc	nod for charge tor substrate, and